

WHAT IS CLAIMED IS:

1. A hose reel device comprising:

a casing having a box received therein and a mandrel located in the box, a hose wrapped on the mandrel;

5 a side plate connected to an end of the box and having a shaft extending from an inside of the side plate, a coil spring mounted to the shaft and having a first end fixed to the shaft and a second end of the coil spring fixed to the side plate;

a transmission gear set located between the box and the side
10 plate and including a first gear co-axially connected to an axle of the mandrel, a second gear co-axially connected to the coil spring and engaged with the first gear, a resistance gear set being engaged with the first gear and including a clutch member which disengages the rotational movement of the first gear from the resistance gear set when pulling the
15 hose, and connects the rotational movement of the first gear to the resistance gear set when retrieving the hose.

2. The device as claimed in claim 1, wherein a wall extends from the side plate and encloses a space for receiving the coil spring, a notch defined in the wall and the second end of the coil spring engaged
20 with the notch.

3. The device as claimed in claim 1, wherein the resistance gear set includes a third gear which is engaged with the first gear and has less number of teeth than the first gear, a fourth gear co-axially connected to

the third gear, a fifth gear engaged with the fourth gear and having less number of teeth than the fourth gear, a sixth gear co-axially connected to the fifth gear, a locking gear engaged with the sixth gear and a flywheel co-axially connected to the locking gear.

5 4. The device as claimed in claim 3, wherein the fourth gear includes a plurality of holes defined therethrough and a clutch member is located between the third gear and the fourth gear, the clutch member having a plurality of tongues which are pivotably connected to the clutch member, the tongues being expanded to engage with the holes in the
10 fourth gear when the hose is retrieved.

5. The device as claimed in claim 3 further comprising a control member pivotably connected to the casing and includes a lever and a pawl which disengagably locks locking gear by operating the lever.

6. The device as claimed in claim 3 further comprising a
15 transmission gear engaged with the first gear and a driving gear respectively, the driving gear driving a guidance piece which evenly wraps the hose onto the mandrel.